

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : David N. Klein

Art Unit : 1745

Examiner : Mark Ruthkosky

Continuation of application:

Serial No. : 09/293,168

Filed : April 16, 1999

Title : PASS/FAIL BATTERY INDICATOR

Commissioner for Patents
Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the claims:

Please add claims 19-27, as follows.

19. A battery indicator for use on a battery comprising:

an electrically addressable display printed on a substrate in electrical communication with the battery, wherein the display displays a first optical state in response to a voltage of the battery indicative of the voltage of the battery.

20. The battery indicator of claim 19, wherein the display displays a second optical state when the voltage applied by the battery falls below a predetermined threshold.

21. A battery indicator comprising:

an electrophoretic display comprising an encapsulated display media;

a first electrode and a second electrode disposed adjacent the electrophoretic display,

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a nonlinear electrical element in electrical communication with a battery and the first electrode, the nonlinear electrical element conducting a battery voltage to the first electrode when the battery voltage exceeds a predetermined threshold;

a voltage divider in electrical communication with the battery and second electrode, the voltage divider providing a voltage to the second electrode that is less than the battery voltage; and

a resistor in communication with the nonlinear electrical element and voltage divider, wherein the display displays a first optical state in response to the voltage of the battery that is indicative of the voltage of the battery.

22. The battery indicator of claim 21, wherein the display comprises a capsule including at least one electrophoretic particle and a dye.

23. The battery indicator of claim 21, wherein the display comprises a capsule including a first plurality of electrophoretic particles having a first optical property and first electrophoretic mobility distribution and a second plurality of electrophoretic particles having a second optical property and a second electrophoretic mobility distribution.

24. The battery indicator of claim 21, wherein the display comprises an encapsulated, bistable display media.

25. The battery indicator of claim 21, wherein the voltage divider comprises two high-impedance resistors.

26. The battery indicator of claim 21, wherein the nonlinear element comprises a diode.

27. The battery indicator of claim 21 further comprising a resistor in electrical communication with the nonlinear device and the second electrode.

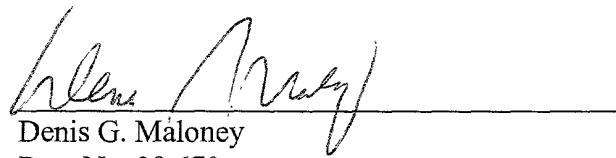
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REMARKS

Pursuant to 37 CFR1.607(c) applicant states that claims 19-27 presented herein correspond exactly or substantially to claims 12-20 of U.S. Patent No 6,118,426. Applicant asks that original claims 1-18 and copied claims be examined. Enclosed is a \$206 check for excess claim fees. Please apply any other charges or credits to Deposit Account No. 06-1050.

Respectfully submitted,


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